

**MIL-DTL-38999 Series III Type**

**233-268 Dual flange receptacles, high-speed PCB contacts**

Part Number Development								
Sample Part Number	233-268			-H2	ZL	09-35	C	N
Series / Basic Part No.	Series 23 SuperNine Hermetic							
Connector Style	H2 = Box Mount H7 = Jam-Nut Mount DH7 = Dual O-ring, Jam-Nut Mount							
Finish*	Z1 = CRES, Passivated ZL = CRES, Nickel Finish							
Shell Size/Insert Arrangement*	Per MIL-DTL-38999/MIL-STD-1560							
Contact Configuration	C = Pin, Feed-thru D = Socket, Feed-thru							
Polarization*	A, B, C, D, E, N = Normal							

\*Refer to Section A for complete details, consult factory for additional options  
Modification codes may be added directly to the end of any valid part number

**Material/finish:**

- Shell and jam-nut (H7 and DH7 only): 300 series CRES/per part number development
- Contacts, pin: nickel-iron alloy/gold plate
- Contacts, socket: copper alloy/gold plate
- Insulator, pins: vitreous glass/N.A.
- Insulator, sockets: high-grade rigid dielectric/N.A.
- Seals: fluorosilicone blend/N.A.  
O-ring (jam-nut only): silver plated aluminum in fluorosilicone (cho-seal 1298 or equivalent)

PC Tail Diameter	
Contact Size	PC Tail ØL
No 23	.020 (0.51) .018 (0.46)
No 22	.020 (0.51) .018 (0.46)
No 20	.030 (0.76) .028 (0.71)
No 16	.040 (1.02) .038 (0.97)
No 12	.072 (1.83) .070 (1.78)

**NOTES**

1. Insert arrangements per MIL-STD-1560. Contact manufacturer for additional arrangement options
2. Glenair 233-268-H7 and DH7 receptacle connectors are designed to meet or exceed the mechanical and dimensional requirements of MIL-DTL-38999, D38999/23, and MIL-STD-1560 except as shown and/or noted.
3. Glenair receptacle connector is designed to meet or exceed the mechanical and dimensional requirements of MIL-DTL-38999, D38999/21, and MIL-STD-1560 except as shown and/or noted.
4. Rear panel mount only
5. Mates with 233-217 or 233-224 plug

**Test Requirements**

DWV Voltage Levels at Sea Level

Service rating	Voltage AC RMS 60HZ
M	1300 VAC
I	1800 VAC
II	2300 VAC
N	1000 VAC

I.R. - 5 Gigohms min. @ 500 VDC

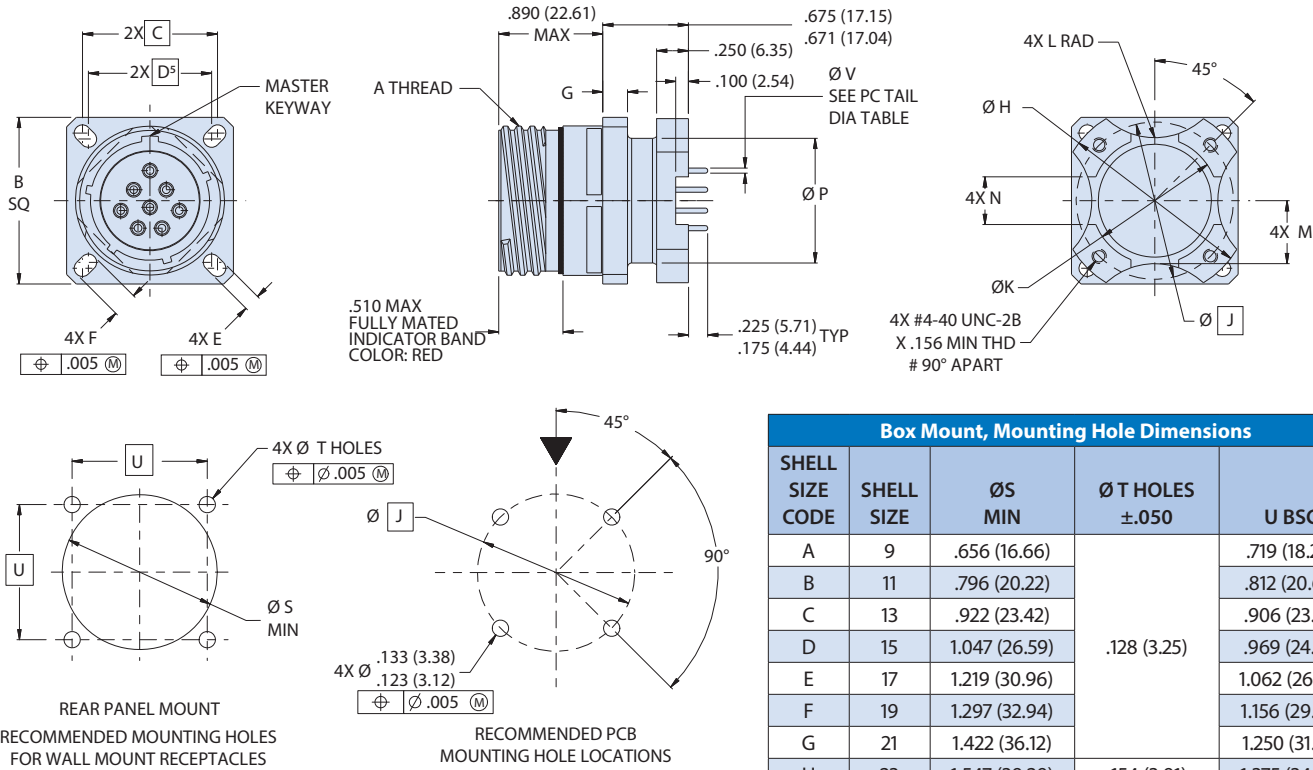
Hermeticity - <1 x 10<sup>-7</sup> ccHe/sec @ 1 ATM, delta pressure

## MIL-DTL-38999 Series III Type

### 233-268 Dual flange receptacles, high-speed PCB contacts

HERMETIC CONNECTORS

#### 233-268-H2 BOX MOUNT RECEPTACLE



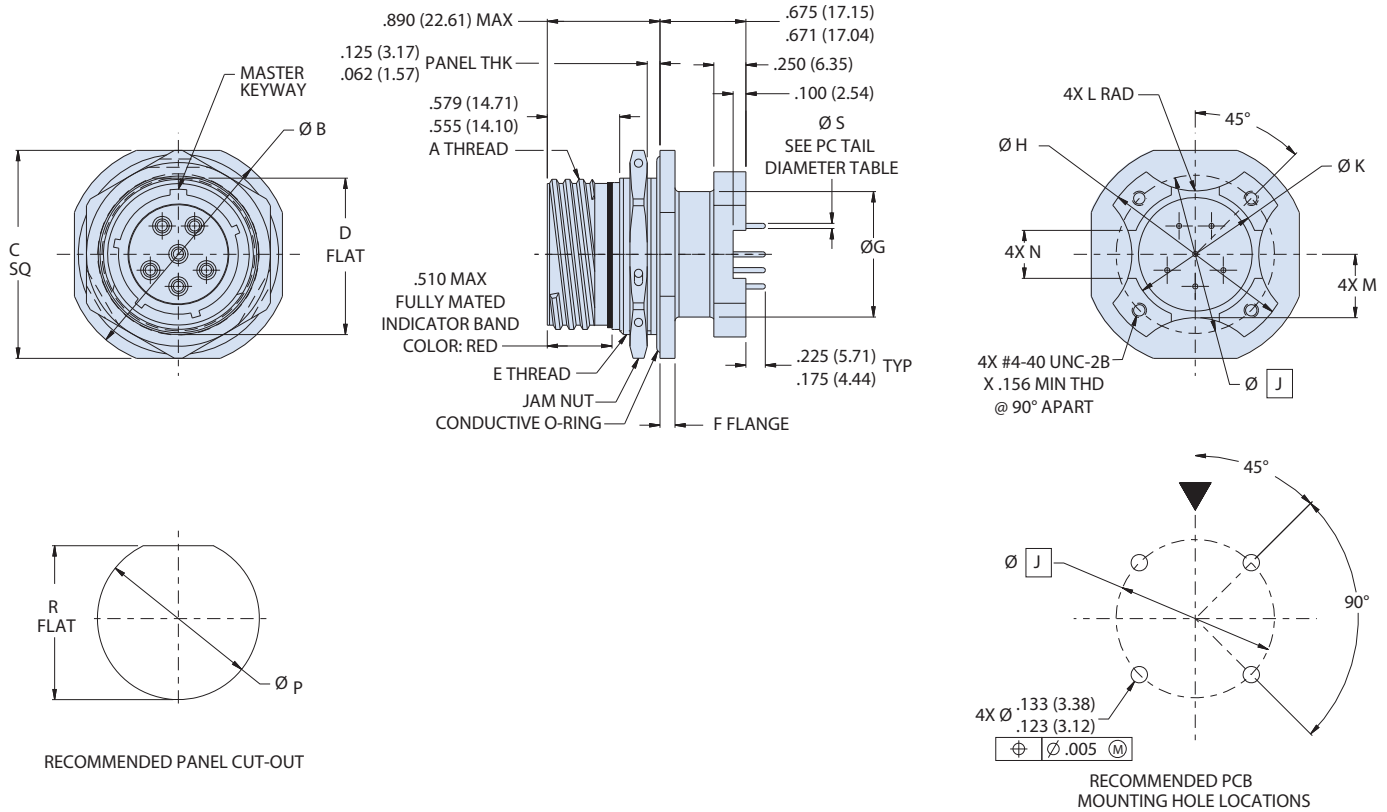
Box Mount, Mounting Hole Dimensions				
SHELL SIZE CODE	SHELL SIZE	ØS MIN	Ø T HOLES ±.050	U BSC
A	9	.656 (16.66)	.128 (3.25)	.719 (18.26)
B	11	.796 (20.22)		.812 (20.62)
C	13	.922 (23.42)		.906 (23.01)
D	15	1.047 (26.59)		.969 (24.61)
E	17	1.219 (30.96)		1.062 (26.97)
F	19	1.297 (32.94)		1.156 (29.36)
G	21	1.422 (36.12)		1.250 (31.75)
H	23	1.547 (39.29)	.154 (3.91)	1.375 (34.92)
J	25	1.672 (42.47)	.150 (3.81)	1.500 (38.10)

Box Mount Dimensions															
SHELL SIZE CODE	SHELL SIZE	A THREAD 0.1P-0.3L-TS-2A	B SQ	C BSC	D5 BSC	E	F	G	ØH ±.005	ØJ BSC	ØK ±.005	L RAD ±.020	M ±.020	N ±.010	ØP ±.005
A	9	.6250 -	.948 (24.08) .925 (23.50)	.719 (18.26)	.594 (15.09)	.136 (3.45) .120 (3.05)	.224 (5.69) .208 (5.28)	.102 (2.59) .075 (1.90)	1.016 (25.81)	.752 (19.10)	.532 (13.51)	.225 (5.72)	.275 (6.99)	.225 (5.72)	.535 (13.59)
B	11	.7500	1.043 (26.49) 1.019 (25.88)	.812 (20.62)	.719 (18.26)		.202 (5.13) .186 (4.72)		1.062 (26.97)	.850 (21.59)	.595 (15.11)	.250 (6.35)	.290 (7.37)	.250 (6.35)	.560 (14.22)
C	13	.8750	1.137 (28.88) 1.114 (28.30)	.906 (23.01)	.812 (20.62)		.181 (4.60) .165 (4.19)		1.250 (31.75)	.994 (25.25)	.720 (18.29)	.375 (9.52)	.370 (9.40)	.250 (6.35)	.700 (17.78)
D	15	1.0000	1.232 (31.29) 1.208 (30.68)	.969 (24.61)	.906 (23.01)		.202 (5.13) .186 (4.72)		1.375 (34.92)	1.119 (28.42)	.843 (21.41)	.438 (11.13)	.440 (11.18)	.325 (8.25)	.857 (21.77)
E	17	1.1875	1.323 (33.60) 1.299 (32.99)	1.062 (26.97)	.969 (24.61)				1.500 (38.10)	1.237 (31.42)	1.000 (25.40)	.562 (14.27)	.495 (12.57)	.375 (9.52)	.980 (24.89)
F	19	1.2500	1.449 (36.80) 1.425 (36.20)	1.156 (29.36)	1.062 (26.97)				1.625 (41.28)	1.379 (35.03)	1.125 (28.58)	.875 (22.23)	.540 (13.72)	.500 (12.70)	1.060 (26.92)
G	21	1.3750	1.575 (40.00) 1.551 (39.40)	1.250 (31.75)	1.156 (29.36)				1.750 (44.45)	1.489 (37.82)	1.240 (31.50)	1.170 (29.72)	.625 (15.88)	.562 (14.27)	1.210 (30.73)
H	23	1.5000	1.701 (43.21) 1.677 (42.60)	1.375 (34.92)	1.250 (31.75)	.162 (4.11) .146 (3.71)	.250 (6.35) .234 (5.94)	1.875 (47.63)	1.619 (41.12)	1.328 (33.73)	1.250 (31.75)	.660 (16.76)	.688 (17.48)	1.310 (33.27)	
J	25	1.6250	1.823 (46.30) 1.799 (45.69)	1.500 (38.10)	1.375 (34.92)			2.000 (50.80)	1.744 (44.30)	1.453 (36.91)	1.375 (34.92)	.740 (18.80)	.750 (19.05)	1.460 (37.08)	

**MIL-DTL-38999 Series III Type**

**233-268 Dual flange receptacles, high-speed PCB contacts**

**233-268-H7 AND 233-268-DH7 JAM-NUT MOUNT RECEPTACLE**



HERMETIC CONNECTORS

Mounting Hole Dimensions for H7 and DH7							
SHELL SIZE CODE	SHELL SIZE	ØP	R FLAT	SHELL SIZE CODE	SHELL SIZE	ØP	R FLAT
A	9	.703 (17.86)	.661 (16.79)	F	19	1.395 (35.43)	1.335 (33.91)
		.693 (17.60)	.655 (16.64)			1.385 (35.18)	1.325 (33.65)
B	11	.835 (21.21)	.771 (19.58)	G	21	1.520 (38.61)	1.460 (37.08)
		.825 (20.96)	.761 (19.33)			1.510 (38.35)	1.450 (36.83)
C	13	1.020 (25.91)	.955 (24.26)	H	23	1.645 (41.78)	1.585 (40.26)
		1.010 (25.65)	.945 (24.00)			1.635 (41.53)	1.575 (40.00)
D	15	1.145 (29.08)	1.085 (27.56)	J	25	1.770 (44.96)	1.710 (43.43)
		1.135 (28.83)	1.075 (27.30)			1.760 (44.70)	1.700 (43.18)
E	17	1.270 (32.26)	1.210 (30.73)				
		1.260 (32.00)	1.200 (30.48)				

**MIL-DTL-38999 Series III Type**

**233-268 Dual flange receptacles, high-speed PCB contacts**

HERMETIC CONNECTORS

**233-268-H7 JAM-NUT MOUNT RECEPTACLE**

Dimensions															
SHELL SIZE CODE	SHELL SIZE	A THREAD 0.1P-0.3L-TS-2A	ØB	C SQ	D FLAT	E THREAD ISO METRIC 1.0-6g 0.100R	F	ØG ±.005	ØH ±.005	ØJ BSC	ØK ±.005	L RAD ±.020	M ±.020	N ±.010	
A	9	.6250	1.200 (30.48) 1.178 (29.92)	1.078 (27.38) 1.048 (26.62)	0.654 (16.61) 0.645 (16.38)	M17	.122 (3.10) .083 (2.11)	.535 (13.59)	1.016 (25.81)	.752 (19.10)	.532 (13.51)	.225 (5.72)	.275 (6.99)	.225 (5.72)	
B	11	.7500	1.386 (35.20) 1.362 (34.59)	1.268 (32.21) 1.236 (31.39)	0.755 (19.18) 0.745 (18.92)	M20		.560 (14.22)	1.062 (26.97)	.850 (21.59)	.595 (15.11)	.250 (6.35)	.290 (7.37)	.250 (6.35)	
C	13	.8750	1.512 (38.40) 1.488 (37.80)	1.390 (35.31) 1.358 (34.49)	0.942 (23.93) 0.932 (23.67)	M25		.700 (17.78)	1.250 (31.75)	.994 (25.25)	.720 (18.29)	.375 (9.52)	.370 (9.40)	.250 (6.35)	
D	15	1.0000-	1.638 (41.61) 1.614 (41.00)	1.516 (38.51) 1.484 (37.69)	1.066 (27.08) 1.056 (26.82)	M28		.857 (21.77)	1.375 (34.92)	1.119 (28.42)	.843 (21.41)	.438 (11.13)	.440 (11.18)	.325 (8.25)	
E	17	1.1875	1.764 (44.81) 1.740 (44.20)	1.642 (41.71) 1.610 (40.89)	1.191 (30.25) 1.181 (30.00)	M32		.980 (24.89)	1.500 (38.10)	1.237 (31.42)	1.000 (25.40)	.562 (14.27)	.495 (12.57)	.375 (9.52)	
F	19	1.2500	1.949 (49.50) 1.925 (48.90)	1.827 (46.41) 1.795 (45.59)	1.316 (33.43) 1.306 (33.17)	M35		1.060 (26.92)	1.625 (41.28)	1.379 (35.03)	1.125 (28.58)	.875 (22.23)	.540 (13.72)	.500 (12.70)	
G	21	1.3750	2.075 (52.71) 2.051 (52.10)	1.953 (49.61) 1.921 (48.79)	1.441 (36.60) 1.431 (36.35)	M38		.153 (3.89)	1.210 (30.73)	1.750 (44.45)	1.489 (37.82)	1.240 (31.50)	1.170 (29.72)	.625 (15.88)	.562 (14.27)
H	23	1.5000	2.201 (55.91) 2.177 (55.30)	2.079 (52.81) 2.047 (51.99)	1.566 (39.78) 1.556 (39.52)	M41		.114 (2.90)	1.310 (33.27)	1.875 (47.63)	1.619 (41.12)	1.328 (33.73)	1.250 (31.75)	.660 (16.76)	.688 (17.48)
J	25	1.6250	2.323 (59.00) 2.299 (58.39)	2.205 (56.01) 2.173 (55.19)	1.691 (42.95) 1.681 (42.70)	M44		1.460 (37.08)	2.000 (50.80)	1.744 (44.30)	1.453 (36.91)	1.375 (34.92)	.740 (18.80)	.750 (19.05)	

**233-268-DH7 DUAL O-RING, JAM-NUT MOUNT RECEPTACLE**

Dimensions															
SHELL SIZE CODE	SHELL SIZE	A THREAD 0.1P-0.3L-TS-2A	ØB	C SQ	D FLAT	E THREAD ISO METRIC 1.0-6g 0.100R	F	ØG ±.005	ØH ±.005	ØJ BSC	ØK ±.005	L RAD ±.020	M ±.020	N ±.010	
A	9	.6250	1.500 (38.10)	1.375 (34.92)	0.654 (16.61) 0.645 (16.38)	M17	.122 (3.10) .083 (2.11)	.535 (13.59)	1.016 (25.81)	.752 (19.10)	.532 (13.51)	.225 (5.72)	.275 (6.99)	.225 (5.72)	
B	11	.7500	1.625 (41.28)	1.500 (38.10)	0.755 (19.18) 0.745 (18.92)	M20		.560 (14.22)	1.062 (26.97)	.850 (21.59)	.595 (15.11)	.250 (6.35)	.290 (7.37)	.250 (6.35)	
C	13	.8750	1.752 (44.50)	1.626 (41.30)	0.942 (23.93) 0.932 (23.67)	M25		.700 (17.78)	1.250 (31.75)	.994 (25.25)	.720 (18.29)	.375 (9.52)	.370 (9.40)	.250 (6.35)	
D	15	1.0000-	1.937 (49.20)	1.811 (46.00)	1.066 (27.08) 1.056 (26.82)	M28		.857 (21.77)	1.375 (34.92)	1.119 (28.42)	.843 (21.41)	.438 (11.13)	.440 (11.18)	.325 (8.25)	
E	17	1.1875	2.063 (52.40)	1.937 (49.20)	1.191 (30.25) 1.181 (30.00)	M32		.980 (24.89)	1.500 (38.10)	1.237 (31.42)	1.000 (25.40)	.562 (14.27)	.495 (12.57)	.375 (9.52)	
F	19	1.2500	2.189 (55.60)	2.063 (52.40)	1.316 (33.43) 1.306 (33.17)	M35		1.060 (26.92)	1.625 (41.28)	1.379 (35.03)	1.125 (28.58)	.875 (22.23)	.540 (13.72)	.500 (12.70)	
G	21	1.3750	2.311 (58.70)	2.189 (55.60)	1.441 (36.60) 1.431 (36.35)	M38		.153 (3.89)	1.210 (30.73)	1.750 (44.45)	1.489 (37.82)	1.240 (31.50)	1.170 (29.72)	.625 (15.88)	.562 (14.27)
H	23	1.5000	2.500 (63.50)	2.300 (58.42)	1.566 (39.78) 1.556 (39.52)	M41		.114 (2.90)	1.310 (33.27)	1.875 (47.63)	1.619 (41.12)	1.328 (33.73)	1.250 (31.75)	.660 (16.76)	.688 (17.48)
J	25	1.6250	2.625 (66.68)	2.400 (60.96)	1.691 (42.95) 1.681 (42.70)	M44		1.460 (37.08)	2.000 (50.80)	1.744 (44.30)	1.453 (36.91)	1.375 (34.92)	.740 (18.80)	.750 (19.05)	